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PATENT
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ABSTRACT OF DISCLOSURE

Disclosed is a video signal converting apparatus and a display device having the same which may convert a low-resolution video signal from a host into a different-resolution video signal capable of being displayed on the entire screen of a high-resolution supporting display device. The apparatus has a detector for detecting a first resolution signal indicative of a resolution of the first display signal using horizontal and vertical synchronization signals related to the first display, a comparator for comparing the first resolution signal with a second resolution signal indicative of a reference resolution; and a converter for converting the first display signal into the second resolution signal, if there is a difference between the first and the second resolution signals.